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Horticultural Abstracts

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C·A·B INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, has received the necessary ratification by Member Countries and is now in the process of being registered with the U.N.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters, its 4 Institutes and 11 Bureaux. The Director General is the chief executive, controlling the 410 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists in CABI's eleven Bureaux, each one specialising in a particular subject area, scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS bibliographic database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available for testing on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are conducted by four Institutes, which provide an international service on pest identification and management. They deal with insect pests, fungal and bacterial agents, and human, animal and plant parasites and with all aspects and types of biological control of plant pests.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential importance as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, and extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

— project appraisal
— advice in a range of scientific disciplines
— research supervision
— research evaluation
— project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

— integrated pest management programmes
— national crop protection services
— pest/disease identification and control
— crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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Primulas	55	133	–	–	374	–	–	–	–	–	–	–
Saintpaulias	–	–	214	–	–	–	599	–	–	–	–	–
Other annual and herbaceous plants	55	133	214	287	374	482	600	679	749	831	920	1022
Bulbs, tubers, etc. – general	–	–	–	–	–	483	601	–	–	–	921	1023
Anemones	–	134	–	288	376	–	–	681	–	–	–	–
Begonias	57	135	215	–	376	483	601	681	–	–	921	1023
Crocuses	–	–	–	–	–	–	–	–	–	–	–	–
Cyclamens	57	135	–	–	376	–	–	681	–	–	–	1024
Dahlias	57	135	–	–	–	484	602	–	–	832	–	–
Freesias	–	–	–	–	–	484	–	–	750	832	–	1024
Gladioli	57	–	215	288	376	484	602	681	751	832	922	1024
Gloxinias	–	–	–	–	–	–	–	–	751	–	–	1024
Hyacinths	57	–	216	289	–	486	–	–	–	–	–	–

Irises	57	136	216	289	–	–	602	–	–	832	922	1024
Lilies	–	136	216	289	376	487	602	681	751	832	922	1024
Narcissi	57	–	216	289	–	489	–	681	752	–	922	1025
Nerines	–	–	–	–	–	490	–	–	–	–	–	1025
Tulips	58	–	216	289	376	490	–	–	752	–	922	1025
Other bulbs, tubers, etc.	58	136	216	289	376	492	602	682	752	832	923	1025
Lawns and other turf	58	136	217	290	377	493	603	682	752	833	923	1026
Aquatic plants	59	–	218	–	–	494	–	–	753	833	–	–
Bromeliads	–	–	218	–	–	494	604	682	753	–	925	–
Other foliage and succulent plants	59	137	218	–	377	494	604	682	753	833	925	1026
Orchids	60	139	220	290	379	496	605	684	755	835	927	1028
Woody plants – general	60	140	220	291	379	496	605	684	756	835	927	1029
Bougainvilleas	–	–	–	–	380	–	–	–	756	–	–	–
Camellias	–	141	222	291	380	497	606	–	756	–	–	–
Conifers	61	141	222	291	380	497	606	685	756	835	–	1031
Heaths and heathers	61	–	222	291	380	497	–	–	–	–	928	1031
Hollies	61	141	–	–	–	–	–	686	–	835	928	–
Hydrangeas	61	–	–	–	–	–	607	–	–	–	928	–
Ivies	–	–	222	–	380	497	607	–	756	–	928	–
Jasmines	62	141	–	–	381	–	–	686	756	–	–	–
Lilacs	62	–	–	–	381	–	607	686	757	–	–	1031
Magnolias	–	141	–	–	–	–	607	–	–	–	–	–
Poinsettias	62	141	223	291	381	497	607	686	–	–	–	1031
Rhododendrons and azaleas	62	141	223	292	381	497	607	686	757	836	928	1031
Roses	62	141	223	292	381	498	608	687	757	836	929	1032
Other woody plants	62	142	224	–	382	498	608	687	757	836	929	1032
MINOR TEMPERATE AND TROPICAL INDUSTRIAL CROPS												
Condiment and spice plants	–	145	228	297	384	501	611	689	760	838	930	1034
Dye plants	65	146	228	298	–	503	612	690	760	839	931	–
Essential oil plants	65	146	228	298	386	503	612	690	760	840	931	1035
Hard fibre plants	–	–	231	–	–	506	614	–	762	–	–	1037
Hops	–	148	–	300	387	506	614	691	762	841	932	1038
Insecticidal and other pesticidal plants	67	148	–	300	388	507	614	691	763	841	932	1038
Medicinal plants	67	148	231	301	388	508	615	691	763	841	933	1039
Perennial fatty oil plants	77	154	234	–	394	517	–	–	769	848	–	1048
Sundry plants	77	155	–	309	394	517	623	695	769	848	945	1048
SUBTROPICAL FRUIT AND PLANTATION CROPS												
Avocados	–	155	234	309	395	518	624	696	770	849	945	1049
Carobs	–	–	234	310	–	–	624	–	–	–	–	1049
Citrus	78	156	235	310	396	518	624	696	770	849	946	1049
Dates	–	–	–	–	401	524	–	699	–	852	948	1052
Feijoas	–	–	–	314	401	–	–	699	–	–	949	1052
Litchis	80	160	–	314	401	524	628	699	–	–	949	1053
Longans	–	161	–	–	–	–	–	–	–	–	–	–
Loquats	80	161	–	–	–	–	–	–	773	852	–	1053
Macadamias	80	–	–	314	401	524	628	–	–	852	949	1053
Olives	81	161	237	–	402	524	628	699	773	852	949	1053
Passion fruit	–	–	–	–	–	524	–	699	–	853	–	–
Persimmons	–	161	237	–	402	525	629	–	–	–	950	1054
Pomegranates	81	–	–	316	–	–	629	–	–	–	950	1054
Prickly pears	–	–	237	316	402	525	629	–	773	853	950	1054
Tamarillos	–	–	–	–	–	–	629	–	–	–	–	–
Tung	81	162	–	316	402	–	–	700	773	853	–	–
Sundry crops	81	–	–	–	–	–	629	–	773	853	950	1055

TROPICAL FRUIT AND PLANTATION CROPS

Annona species	82	–	–	–	–	525	630	–	773	853	951	–
Arecanuts	–	162	–	–	403	526	630	–	–	–	951	–
Artocarpus species	–	–	237	316	–	–	630	–	–	853	–	–
Bananas and abaca	82	162	238	317	403	526	630	700	774	853	951	1055
Cashews	83	163	238	317	403	527	–	701	774	–	952	–
Cocoa	83	163	238	317	404	527	631	701	774	854	952	1058
Coconuts	84	163	238	317	404	527	632	–	774	854	952	1058
Coffee	84	164	239	318	405	528	632	701	775	855	952	1059
Cola	85	–	–	–	–	528	–	–	–	–	953	1060
Guavas	–	–	–	318	405	528	633	701	775	–	953	1060
Mangoes	86	164	239	318	406	529	634	702	775	855	953	1060
Oil palms	86	165	239	319	407	530	635	–	775	856	953	1061
Pawpaws	87	165	239	–	407	530	635	702	775	856	954	1061
Pineapples	–	165	–	319	407	530	635	702	776	856	–	1062
Rubber	87	165	–	320	408	531	635	703	776	856	955	1062
Sapodilla	88	166	–	–	–	531	–	–	–	857	–	–
Sugarcane	88	166	239	320	408	531	635	703	776	857	955	1063
Tea	89	167	240	321	410	535	638	704	777	859	957	1064
Ziziphus species	89	–	240	322	411	535	638	705	–	–	958	–
Sundry crops	90	169	241	322	412	535	639	705	778	–	958	1066

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C·A·B INTERNATIONAL
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SYMBOLS FOR UNITS

Symbol	*Unit or Prefix*	*Symbol*	*Unit or Prefix*	*Symbol*	*Unit or Prefix*
a	are ($10^2 m^2$)	ft	foot (feet)	μ–	micro- ($\times 10^{-6}$)
a–	atto- ($\times 10^{-18}$)	g	gramme	min	minute (time)
A	ampere	g_n	standard gravity	′	minute (angle)
Å	angstrom	gal	gallon	mol	mole
atm	standard atmosphere	G-	giga- ($\times 10^9$)	n-	nano- ($\times 10^{-9}$)
Btu	British thermal unit	Gy	gray	N	newton
bu	bushel	H	henry	Ω	ohm
C	coulomb	h	hour	oz	ounce
c-	centi- ($\times 10^2$)	h-	hecto- ($\times 10^2$)	p-	pico- ($\times 10^{-12}$)
°C	degree Celsius	ha	hectare ($10^4 m^2$)	Pa	pascal
cal	calorie	hkg	hectokilogram ($10^2 kg$)	q	quintal
Cd	candela	hp	horsepower	qt	quart
Ci	curie	Hz	hertz	R	Roentgen
ctl	cental	J	joule	rad	radiation absorbed dose
cwt	hundredweight	k-	kilo- ($\times 10^3$)	″	second (angle)
d	day	K	kelvin	s	second (time)
d-	deci- ($\times 10^{-1}$)	K_m	Michaelis constant	sr	steradian (solid angle)
da-	deca- ($\times 10$)	lb	pound	t	tonne
dB	decibel	lbf	pound-force	T-	tera- ($\times 10^{12}$)
°	degree (angle)	lm	lumen	T	tesla
E	einstein	lx	lux	V	volt
f-	femto- ($\times 10^{-15}$)	m	metre	W	watt
F	farad	m-	milli- ($\times 10^{-3}$)	Wb	weber
°F	degree Fahrenheit	M-	mega- ($\times 10^6$)	yd	yard
fl oz	fluid once				

SYMBOLS FOR LANUGUAGES

Af	Afrikaans	Fi	Finnish	Nl	Dutch and Flemish
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijan	He	Hebrew	Pl	Polish
Be	Byelorussian	Hu	Hungarian	Pt	Portugese
Bg	Bulgarian	Ia	Interlingua	Ro	Romanian
Ch	Chinese	In	Indonesian	Ru	Russian
Cr	Croat	It	Italian	Sh	Serbo-Croat
Cs	Czech	Ja	Japanese	Sk	Slovak
Da	Danish	Ko	Korean	Sn	Slovene
De	German	La	Latin	Sv	Swedish
Ee	Estonian	Li	Lithuanian	Ta	Tajik/Tadzhik
En	English	Lv	Latvian	Tr	Turkish
Eo	Esperanto	Ma	Macedonian	Uk	Ukrainian
Es	Spanish	My	Malay/Bahasamalysia		

Symbols with capitals represent the language of the paper; symbols without capitals the summaries.

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